VGN-SZ28GP

A graceful harmony of design dynamics and the latest architecture, VAIO SZ28GP/C offers superior performance in a slim 13.3" wide profile. The light and trim profile with carbon cabinet makes this notebook PC ready for the fast track in business with advanced features suited to quality lifestyles.

Built with a carbon display cabinet and sized for mobility, VAIO SZ28GP/C meets your needs with executive style. Leading-edge platform and a new graphic system, plus more, amount to refined solutions for power and stamina. And secure mobility is now at your fingertips. All realised in 13.3" wide size! That's how VAIO SZ28GP/C defines "perfectly portable notebook PC".

VAIO SZ28GP/C delivers assured performance in a slim, light 13.3" wide profile. Thanks to powerful battery and power management setting, you get long-lasting stamina for agile mobility. Enhanced by an array of wireless capabilities, as well as features for expandability and advanced communication, VAIO SZ28GP/C is the ideally-sized office to go.

Music or movie fans and Handycam users will be delighted with VAIO SZ128GP/C's AV versatility. From awesome audio features for the sound you want and cinema-like viewing to DVD creation, VAIO SZ28GP/C and its 13.3" wide Clear Bright LCD offer all-around AV capability. Fulfil your creative needs and get full media enjoyment when away from the office and on the go — or simply relaxing at home.

* Intel® Centrino® Duo Mobile Technology

Supported by state-of-the-art architectural specs, the VAIO SZ28GP/C especially offers outstanding mobile performance with its trim 13.3" wide design. Intel® Centrino® Duo Mobile Technology, one of Intel®´s latest platforms, assures smooth and powerful processing from its Intel® Core™ Duo Processor T2500 (2.0GHz), the advanced chipset (Intel® 945GM Express Chipset) supported by FSB 667MHz, and Intel® PRO/Wireless 3945ABG Network Connection. Intel® Duo Mobile Technology realises splendid mobility because its processor functions in "Duo": as though two processors existed as one. Combined with these brilliant features, the 80GB HDD (5400rpm) Serial ATA, 512MB DDR2 SDRAM (533MHz) main memory, and PCI Express x16 connection for the graphics chip will intelligently upgrade your mobile potential.

- Hybrid Graphic System — Sony's graphics chip switch system

  VAIO SZ28GP/C features Hybrid Graphic System technology — Sony´s new proprietary graphics chip switch system (patent pending) that lets you select from a choice of external or internal graphics accelerator. In SPEED MODE, the VAIO SZ28GP/C uses the powerful external graphics chip (NVIDIA® GeForce® Go 7400 with NVIDIA® TurboCache™*), perfect when you want full graphic acceleration for smooth video playing or image editing. In STAMINA MODE, it uses the internal graphics chip, convenient when you need battery stamina for long PC usage outside the office or on business trips. The hardware switch and indicator LEDs, centred above the keyboard, tell you which graphics chip is being used: if the indicator LED for SPEED MODE is on, then VAIO SZ28GP/C is currently using the external graphics chip. To switch modes, slide the switch to STAMINA MODE and reboot. Make full use of graphic power or save battery consumption according to your needs.

- Remarkably accelerated graphics chip

  As the graphics technology used in 3D games and high-quality image/video processing advances, more and more people are demanding notebook PCs with powerful graphics accelerators. Featuring the latest graphics chip, VAIO SZ28GP/C could be the solution to meet such needs. Remarkably smooth and accurate playback of movies is possible thanks to NVIDIA® GeForce® Go 7400 with NVIDIA® TurboCache™* and 128MB of video memory. And, the result is further enhanced by the NVIDIA® PureVideo™

technology. VAIO SZ28GP/C is also fantastic for playing 3D games since it supports the latest 3D graphics API (Shader Model Ver. 3.0). In addition to all these excellent features, Sony´s Hybrid Graphic System can balance battery stamina and graphic performance to support your varied mobile usage.

- 13.3" wide LCD for your convenience

  VAIO SZ28GP/C notebook PC is an excellent size in several ways — perfect for both functionality and portability. The 13.3" wide (WXGA: 1280 x 800) LCD lets you display windows of software applications as you like, with an open task menu on the right and a wide operation area on the left. Or, open two application windows at the same time and you´ll have room to display them in a horizontal layout. Get full use of help menus or compare two different documents. With full functionality like this, VAIO SZ28GP/C´s 13.3" wide profile is just right for convenient portability — neither too big nor too small. In every way, the 13.3" wide VAIO SZ28GP/C gives you the mobility you need.

- Ultra-slim display — an extraordinary 5.1mm

  One of the most eye-catching features of VAIO SZ28GP/C´s shape is its ultra-slim display —- only 5.1mm thick — even with the MOTION EYE camera built on its LCD bezel! This extraordinary thinness comes from the white LED, one of the latest display technologies used in the VAIO SZ28GP/C LCD backlight. Trim design of the LED allows the light guide and glass cell to be slimmer. Also, the highly compact LCD system board maintains the lightweight profile and, moved beneath the backlight, requires no extra space, another defining factor in VAIO SZ28GP/C´s slimness. Though comprising a remarkable 49 LEDs, this is how the LCD module became slimmer and lighter than other VAIO SZ LCD modules using normal backlight.

  Other unique structural features of the VAIO SZ28GP/C LCD make it a hard nut to crack. The LCD system board has been shifted below the LCD to simplify internal support and prevent LCD damage. What´s more, no screws have been used to attach the LCD to the outer shell. This reduces the possibility of cracks occurring from extreme pressure exerted by screwed parts and panels. And with glass cells shaped into a slim profile, the LCD is now more resistant to shocks and stress. All these structural assets also play a large role in minimising VAIO SZ28GP/C´s profile.

- Multi-layered carbon fibre

  VAIO SZ28GP/C employs carbon material in the display cabinet to fortify its strength and durability. The display cabinet uses the multi-layered carbon fibre often used in F1 racecars and aircraft, lighter and stronger than magnesium alloy. Carbon fibres are aligned in the same direction and formed into a sheet. Sheets are then stacked so that each sheet´s fibres face different directions. Lastly, this stack of sheets is made into a plate. The resultant carbon plates are extremely strong. VAIO SZ28GP/C therefore is 200% more rigid and 30% lighter than regular notebook PCs using magnesium. This exclusive body structure is also responsible for VAIO SZ28GP/C´s remarkable portability.

- Hard Disk Password

  VAIO SZ28GP/C features the Hard Disk Password, which provides additional security for data stored on the hard disk. By requiring password authentication for the hard disk itself, this security measure helps prevent information leakage in the event of loss or theft.

- Fingerprint Sensor

  VAIO SZ28GP/C is equipped with a fingerprint sensor for heightened convenience. Simply by swiping a finger over the sensor, users can access the BIOS, hard disk drive, Windows® log-ons, and websites without entering passwords. If the sensor ever fails to recognise a user´s fingerprint, a special password can be input to bypass the sensor. Managing fingerprint passwords is made easy by the user-friendly interface of pre-installed Protector Suite QL software.

- TPM Security Chip

  VAIO SZ28GP/C provides secure encryption and decryption of files and folders with a built-in TCG (Trusted Computing Group) ver. 1.2 compliant Trusted Platform Module (TPM) security chip and supplied software utility. TPM can be utilised with files such as email, the Encrypting File System in Windows® XP Professional operating system, and an encrypted part of the hard disk. The supplied utility enables users to register TPM passwords that are stored and encrypted by the chip.

- VAIO HDD Protection

  VAIO SZ28GP/C features VAIO HDD Protection function for secured mobility. When the built-in 3D acceleration sensor senses shakes and/or shocks, VAIO HDD Protection places the HDD head in a safe position to protect the disk from scratches. If you´re a notebook PC user, you may know what it´s like to have your notebook drop from your hands in power-on mode soon after lifting it off your desk. In such cases, VAIO HDD Protection prevents important data loss caused by HDD damage. VAIO SZ28GP/C also offers a utility application for this function. Users can adjust the detection level of the acceleration sensor depending on usage. In a car or on a train, where frequent vibration cannot be avoided, change the sensor setting to "low" so that VAIO HDD Protection won´t get engaged unnecessarily. If the VAIO HDD Protection detects any threatening movements, an alert balloon will appear on your desktop.

- Multi-functional S buttons for enhanced work efficiency

  VAIO SZ28GP/C provides two hardware S buttons offering convenient one-touch access to default or assigned functions. In default setting, the S1 button mutes the volume while the S2 button reduces the fan´s operational noise. Either button can be assigned to other useful functions: to turn off the Multi Monitor function with a single touch (functions when both VAIO SZ28GP/C and the connected external monitor displays are on); to switch on the external monitor output; to put VAIO SZ28GP/C in standby or hibernation mode; to maximise screen brightness; to turn on SonicStage Mastering Studio Audio Filter; or to launch VAIO Zone, VAIO Power Management Viewer, or any other application of your choice.

- Built-in Bluetooth® for all-round communication

  VAIO SZ28GP/C comes with built-in Bluetooth® standard version 2.0+EDR. Compared to Bluetooth® standard version 1.2, this updated version enhances data transfer speed while minimising power consumption for quality-assured communication. Moreover, VAIO SZ28GP/C supports compatibility with a headset profile. So, if you like voice communication, you´re sure to enjoy using Bluetooth®-compatible headsets with the application of your choice. Simply take your slim & light VAIO SZ28GP/C and headset anywhere you go and make VoIP calls to business associates, family or friends. Unleash the power of communication with your versatile VAIO SZ28GP/C.

- Built-in Camera MOTION EYE & microphone for business

  VAIO SZ28GP/C features a built-in MOTION EYE camera and microphone to meet your business needs. Simply turn on the built-in MOTION EYE and have a videoconference with business partners or staff anytime, anywhere. MOTION EYE and microphone are optimally located on the upper LCD bezel for smooth communication with clear imaging and voice transmission. Whether in your hotel room or at an airport lounge, VAIO SZ28GP/C instantly turns "your place" into "a meeting room".

- Plug & Display

  In the past, when connecting a projector with a notebook PC having a wide screen or higher resolution LCD, you had to twiddle with controls for a few embarrassing moments to match the resolutions of the two machines. No more! With VAIO SZ28GP/C, you simply connect and display. VAIO SZ28GP/C automatically chooses the proper aspect ratio and maximum resolution that the projector allows* and displays your presentation material accordingly. The aspect ratio of projectors is usually 4:3, while the aspect ratio of

VAIO SZ28GP/C is 16:10. In the past, you had to manually set up the proper aspect ratio. But the Plug & Display function automatically adjusts the aspect ratio of VAIO (16:10) to the aspect ratio of the projector (4:3). With Plug & Display, there´s no fooling with controls — just fast, trouble-free professional presentations. Simply connect, and make your presentation with ease!

Versatile data transfer with Memory Stick Duo slot and Memory Card Adapter

VAIO SZ28GP/C offers connectivity with various media for convenient data transfer. The Memory Stick Duo slot*, located on the lower left side of the keyboard, is compatible with Memory Stick Duo and Memory Stick PRO Duo. In addition, VAIO SZ28GP/C comes with Memory Card Adapter VGP-MCA20 supporting Memory Stick, Memory Stick PRO, SD card, MMC card, and xD-Picture card™ via ExpressCard™/34 slot. Quickly and easily transfer your data from various media to enhance your business capabilities.

Built-in wireless LAN 802.11 a/b/g

The new VAIO SZ28GP/C is compatible with IEEE 802.11a, IEEE 802.11b and IEEE 802.11g (Wi-Fi) wireless LAN standards. So with just a flick of the wireless LAN switch on the front of the VAIO SZ28GP/C, you´re linked with your home or office wireless LAN access point with up to impressive 5GHz performance. Move around freely with assured connectivity near your home or office, communicate with other devices, surf the Net, email or whatever you like — all without cables holding you down!

Mobile endurance and performance packed into 13.3" wide!

Long-lasting battery stamina is essential for power mobile users. VAIO SZ28GP/C provides exceptional power to go, for as much as up to 7 hours*. Optional battery VGP-BPL2C offers up to 10.5 hours* for assured stamina. In addition, Sony´s original technology includes Hybrid Graphic System and VAIO Power Management Viewer to help save power. Both mobile endurance and performance are neatly packed into the ultra-convenient 13.3" wide VAIO SZ28GP/C.

VAIO Power Management Viewer

VAIO SZ28GP/C is especially made with several power-saving features for mobile usage. VAIO Power Management Viewer is one of them. It lets you customise different power modes to control the balance of stamina and performance according to your preferences and needs. You can preset several different power modes for different occasions. For example, select "presentation" mode to adjust the "display brightness" to maximum setting for your presentations, or choose "mobile" mode to set "power-saving" to maximum setting for your business trips. VAIO SZ28GP/C especially offers high performance when it uses battery power. Switch from one mode to another easily and make the most of your power supply.

New fan accommodates high performance

VAIO SZ28GP/C features a new type of fan, Complex Shroud Blade Fan. Its blades are specially shaped and the air volume is increased for intake and exhaust during the fan´s rotation. Exhaust air volume is especially increased with the two-directional exhaust vents while rotation noise is moderately controlled. As a result, excellent heat loss efficiency and low noise are realised. Now when you work on your PC for many hours, you can keep comfortable. In addition, VAIO SZ28GP/C offers a utility setting that lets you prioritise "quietness", which keeps the frequency of the fan below a certain level. You can simply change the setting with the S button.

ExpressCard™/34 slot

Equipped with a slot for ExpressCard™/34, the next generation of PC card, the VAIO SZ28GP/C enables significantly accelerated data transfer. And through use of the supplied Memory Card Adapter, the same slot can also be used to accept Standard Memory Stick, Memory Stick PRO, SD/MMC cards and xD-Picture card™ too.

* Items marked with "*" are step up features.

GENERAL	
Operating System	Microsoft® Windows® XP Professional with Service Pack 2 (English version)
Chipset	Intel® 945GM Express Chipset
Processor System Bus	667 MHz
Memory Bus	533 MHz
Cache Memory	L1 Cache: 64 KB L2 Cache: 2 MB (on CPU)
Main Memory	1GB DDR2 SDRAM (Dual Channel Mode)(upgradeable up to 2 GB)(partially shared with video memory)
Hard Disk	100 GB (C: 30GB, D: 64GB, HDD Recovery Storage: 6GB) Serial ATA, 5400 rpm
Graphics Accelerator	NVIDIA® GeForce® Go 7400 with NVIDIA® TurboCache™ (PCI Express x16 connection)
Video Memory	128 MB
Display	13.3" Wide (WXGA: 1280 x 800) TFT colour display (Clear Bright LCD: White LED, Wide View)
Modem	V.92 and V.90 Compliant
PC Card Slots	Type I/II x 1, CardBus Support
Microprocessor	
Intel SpeedStep® Technology	Supported
Intel® Pentium® Processor	Intel® Core™ Duo Processor T2500 (2GHz)
Intel® Centrino™ Mobile Tech	Intel® Centrino® Duo Mobile Technology
Optical Drive	
Maximum reading speed	DVD±R, DVD±RW, DVD+R DL : 4x / DVD-ROM: 8x / CD-RW: 12x / CD-R, CD-ROM: 24x
Maximum writing speed	DVD±R: 4x / DVD+RW, DVD+R DL: 2.4x / DVD-RW: 2x / CD-R: 24x / CD-RW: 10x
Interfaces	
USB 2.0	x2
i.LINK	IEEE1394
S400	4 pin
VAIO notebook connector	DC IN
Headphone jack	Stereo mini
Microphone jack	Stereo mini
Network connector	(RJ-45) connector (100BASE-TX/10BASE-T)
Monitor connector	VGA, D-SUB 15 pin
Modular connector	(RJ-11) connector
Memory Stick slot	Memory Stick Duo Slot (MagicGate, Memory Stick PRO Duo, High-speed data transfer compatible
Wireless LAN	
Integrated Wireless LAN	Integrated Wireless LAN IEEE 802.11a/802.11b/802.11g
Data rate	maximum 11Mbps (802.11b)/54 Mbps (802.11a/g)
Frequency	5 GHz (802.11a), 2.4 GHz (802.11b/g)
CAMERA/VIDEO CAPTURE	

Total pixels	310,000 pixels effective
Picture element	1/8", VGA CMOS
Lens	2 elements in 2 groups, F4(Fixed)
Focus distance	f=1.74 mm
White balance	--
Shutter speed	--
Flicker cancellation	--
Movie capture format/size	--
Captured frames	--
OTHERS	
Keyboard	86 Keys, Intelligent Touchpad
Input Device	ca 19 mm Key pitch / 3 mm Key stroke
Battery	Lithium-ion battery (VGP-BPS2C)
Audio	
3D Audio(Direct Sound 3D supp)	Yes
Intel HD Audio Compatible	Yes
Stereo Speakers	Yes
Software MIDI sound generator	Yes
AC97 compliant	Yes
Windows Sound System Compat.	Yes
Software Applications	
Sony VAIO Control Centre	Ver. 1.1
Sony VAIO Zone	Ver. 1.4
Sony VAIO Update	Ver. 2.1
Sony VAIO Media	Ver. 5.0
Sony SonicStage	Ver. 3.4
Sony Click to DVD	Ver. 2.5
Roxio DigitalMedia	Ver. SE 7
Sony VAIO Edit Components	Ver. 6.0
Adobe Premiere Standard	Yes
Adobe Reader	Ver. 7
Adobe Photoshop Elements	Ver. 4 Installer
InterVideo WinDVD 5 for VAIO	Yes
Sony DVgate Plus	Ver. 2.2
Sony Network Smart Capture	--
Sony Notebook Setup	--
Sony PictureGear Studio	Ver. 2.0
Norton	Internet Security 2006
VAIO Recovery Utility	Ver. 2.6
SUPPLIED ACCESSORIES	
Lithium-ion battery	VGP-BPS2C
AC Adaptor	VGP-AC19V12
DIMENSIONS & WEIGHT	
Weight (kg)	1.69 kg (including the supplied battery)
Dimensions (W x H x D) mm	315 x 21.8 - 32.6 x 234.3 mm